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NOTICE OF ALLOWANCE AND FEE(S) DUE

210

7590

05/28/2008

MERCK AND CO., INC P O BOX 2000 RAHWAY, NJ 07065-0907 EXAMINER

TUCKER, ZACHARY C

ART UNIT PAPER NUMBER

1624

DATE MAILED: 05/28/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559.855	12/07/2005	Paul J. Coleman	21358P	1554

TITLE OF INVENTION: MITOTIC KINESIN INHIBITORS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/28/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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210 7590 05/28/2008							
MERCK AND CO., INC P O BOX 2000 RAHWAY, NJ 07065-0907			I he Sta add trar	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
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							(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	?	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/559,855	12/07/2005	•	Paul J. Coleman			21358P	1554
TITLE OF INVENTION	: MITOTIC KINESIN II	NHIBITORS					
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nonprovisional	NO	\$1440	\$300	\$0		\$1740	08/28/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
TUCKER, Z	ACHARY C	1624	514-375000	J			
1. Change of corresponde	ence address or indication	n of "Fee Address" (37	2. For printing on the p	patent front page, lis	t		
CFR 1.363). Change of corresp	ondence address (or Cha	nge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
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3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or ty	rpe)			
PLEASE NOTE: Unl recordation as set fort	less an assignee is ident h in 37 CFR 3.11. Comp	ified below, no assignee oletion of this form is NO	e data will appear on the p OT a substitute for filing an	oatent. If an assigned assignment.	ee is io	dentified below, the do	cument has been filed for
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) D. a			. 🗅 .
Please check the appropr	iate assignee category or	categories (will not be p	orinted on the patent):	Individual — Co	rporat	ion or other private gro	up entity Government
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**	s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no lor	<u> </u>			
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10/559,855	12/07/2005	Paul J. Coleman	21358P	1554	
210 75	90 05/28/2008		EXAM	INER	
MERCK AND CO., INC			TUCKER, ZACHARY C		
P O BOX 2000 RAHWAY, NJ 07065-0907		ART UNIT PAPER NUMBER			
			1624		
			DATE MAILED: 05/28/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 323 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 323 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/559,855	COLEMAN ET AL.
Notice of Allowability	Examiner	Art Unit
	Zachary C. Tucker	1624
The MAILING DATE of this communication apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	orrespondence address plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to 23 April 2008.		
2. The allowed claim(s) is/are <u>1-7</u> .		
3.	been received. been received in Application No cuments have been received in this of this communication to file a reply IENT of this application. itted. Note the attached EXAMINER as reason(s) why the oath or declarate be submitted. son's Patent Drawing Review (PTO- as Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL In sit of BIOLOGICAL MATERIAL In	national stage application from the complying with the requirements S AMENDMENT or NOTICE OF ation is deficient. 948) attached Office action of the back) of d). must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), te

Response to Amendment

In reply to the amendment from applicants' (hreinafter, "present amendment"),filed 23 April 2008, which is in reply to the Office action mailed 12 February 2008 (hereinafter "previous Office action"), The amendments to claims 1, 2, 4, and 9 have been entered. Claims 8-10, 21-22 and 32 and 33 have been cancelled, aslo as requested.

Requirement for Restriction ~and~ Election of Species

A reply to the Election of Species Requirement, my made by the examiner to which applicants' replied with election the invention of Group I, claims 1-8 in part, drawn to 2,7a-dihydro–1*H*-pyrrolo[1,2-c[1,3-oxazol-3-ones, without traverse.

In addition to that reply applicants indicated elected of a single disclose specie of Group I, 1-9. applicants' indicated that compound I-9, found on page 77,

A search was conducted bearing in mind applicants' species of the invention, and eventually was broadened to include all of the full scop of elected Group I claims.

Therefore,. 8-10, 21, 22, 2, 32 and 33 are hereby rejoinded now with claims from Group I. The Requirement for Restriction bewteen Group I and V claims is hereby WITHDRAWN.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

In the previous Office action claims 8-10, 21, 22, 32, and 33 were rejected un 35

U.S.C. 112, first pararagraph, for lack of enblement.

Cancelation of all the claims rejected under this ground renders the issue moot.

Allowable Subject Matter

Claims 1-7 are allowed. The closest prior art with respect to mitotic kinesin inhibitors having structural similarity superficial to the one according to the allowed claims comes from:

A .K. Chakraborti et al, *Journal of Bioorganic & Medicincal Chemistry, vol.* 11, page 3989-3996 (1 September 2004, Tabl 1 shows the structures of several COC-2 inihibitor compounds investigated by the term. Compound #33 on page 19992 bears a ressmplance to compounds according to the allowed claims, but extra nitrogen atom, oxygen atom an carbonyl group is permitted not to be present in the heterocyclic portion of the central bi-cyclic ring core. A. Chakraborti et al was cited by applicants in one the Information dislosure statement filed by applicant on 3 December 2007.

All previously stated rejections and objections of the instant claims have been overcome by the present amendment.

Conclusion

All Post-Allowance Correspondence concerning this application must be mailed to:
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 P.O. Box 1450
 Alexandria, VA 22313-1450

Or you can fax them to the Office of Patent Publications at 703-872-9306, in order to expedite the handling of such correspondence as amendments under 37 CFR 1.312; information disclosure statements, and formal drawings. Sending Post-Allowance papers to Technology Center 1600 will only cause delays in matching papers with the case.

For information concerning status of correspondence sent after receipt of the Notice of Allowance, please contact the Correspondence Branch at (703) 305-8027. The Notice of Allowance also has an insert containing contact information on other items, including Issue Fees, receipt of formal drawings and the status of the application.

Art Unit: 1624

Primary Examiner
Art Unit 1624